SphK1&2-IN-1

Cat. No.: HY-148707

CAS No.: 1415662-57-5

Molecular Formula: $C_{14}H_{14}N_2O_3S$

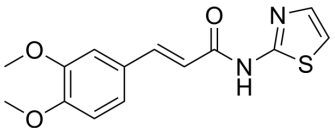
Molecular Weight: 290.34

Target: SphK

Pathway: Immunology/Inflammation

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 31.25 mg/mL (107.63 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.4442 mL	17.2212 mL	34.4424 mL
	5 mM	0.6888 mL	3.4442 mL	6.8885 mL
	10 mM	0.3444 mL	1.7221 mL	3.4442 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SphK1&2-IN-1 is a SphK inhibitor targeting to SphK1 and SphK2. SphK1&2-IN-1 has thermal stability[1][2].

IC_{50} & Target	SphK1	SphK2

In Vitro

SphK1&2-IN-1 (compound 40) (10 μM) inhibits SphK1 and SphK2 with inhibition rates of 14.3% and 26.5%, respectively[1].
SphK1&2-IN-1 (compound W4) (1-100 μM) has good thermal stability[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Vogt D, et al. Design, synthesis and evaluation of 2-aminothiazole derivatives as sphingosine kinase inhibitors. Bioorg Med Chem. 2014 Oct 1;22(19):5354-67.

[2]. Nong W, et al. Synthesis and biological evaluation of a new series of cinnamic acid amide derivatives as potent haemostatic agents containing a 2-aminothiazole substructure. Bioorg Med Chem Lett. 2017 Sep 15;27(18):4506-4511.

Caution: Product has not been fully validated for medical applications. For research use only.

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